

FIBER REINFORCED PLASTIC VACUUM VESSEL

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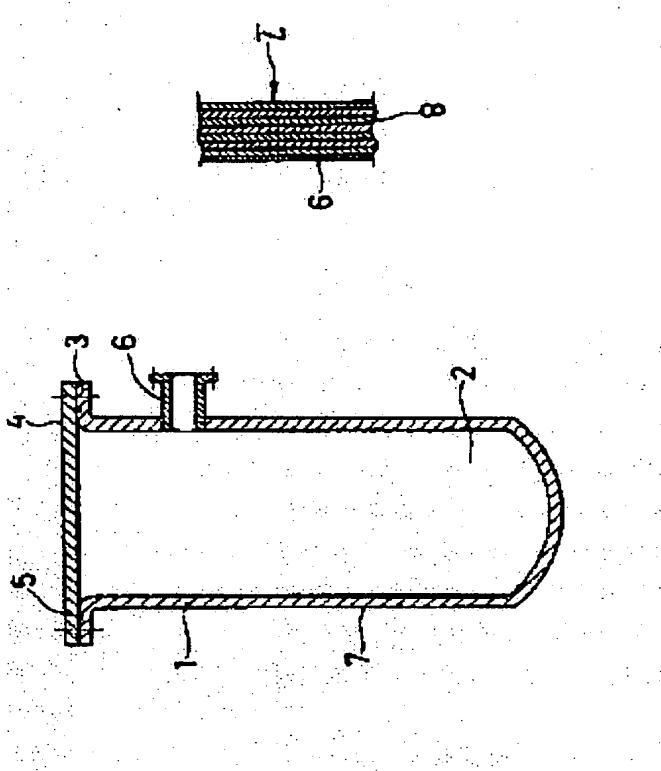
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Abstract of JP61021471

PURPOSE: To check gas permeation in and out of a vessel as well as to exhaust the vessel inside into a high vacuum, by attaching a gas screening film onto the surface of an innermost layer of laminating, in case of a device having a vessel wall made up of laminating sheetlike fiber reinforced plastic molding materials.

CONSTITUTION: A vessel wall 7 forming a vessel body 1, a flange part 3, a cover 4 and a vacuum pump setting flange part 6 or the like is made up of laminating each of fiber reinforced plastic layers 8. In this case, when these fiber reinforced plastic layers 8 are made up of laminating sheetlike fiber reinforced plastic molding materials including prepreg and the like, a gas screening film 9 is attached onto the surface of an innermost layer of laminating, and layered with one after another and hardened, thus the vessel wall 7 is produced. According to this method, supposing that the inside of the vessel body 1 is made into vacuousness, even when gas remains between layers of the vessel wall 7, it is screened by the gas screening film 9 so that no deaeration occurs any longer. Also gas permeation from the outside will not happen there, thus the inside of the vessel body 1 is maintainable in a high vacuum.



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